

**Notice of Allowability**

Application No.

10/607,593

Examiner

Tuan A. Vu

Applicant(s)

FATHALLA, DIAA

Art Unit

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the submission filed 7/11/07.
2. ☒ The allowed claim(s) is/are 1-3, 5-21 and 23-26 (renumbered 1-24).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 8/20/07 .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### **DETAILED ACTION**

1. This action is responsive to the Applicant's response filed 7/11/07.

As indicated in Applicant's response, amended claims 1-26 are pending in the office action.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with attorney Mauricio Uribe, Reg # 46206 on 8/17/07.

The application has been amended as follows.

In the CLAIMS:

The claims have been amended in accordance with the amendments, herein provided as an attachment.

Attached herein is the Amendment B of the "Amendments to the Claims", dated 8/18/07.

### ***EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE***

Claims 1-3, 5-21 and 23-26 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art taken separately or jointly does not suggest or teach the following features.

A method and a computing device including a software tool for submitting API calls, comprising (i) at least one symbol table for collecting symbol, parameters and memory

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references collected from a log of API calls, and wherein the symbol table is used for mapping symbol, parameters and memory references therein to corresponding memory references allocated for the software tool, wherein (ii) the log of API calls records API calls that have been previously invoked in an execution environment of the software tool; (iii) a call builder to create an API call sequence for submitting subsequent API calls to the various components of the computing device; and an call executor utilizing an execution template to execute the created API call sequence within the software tool execution environment, wherein (iv) said execution template is for maintaining a set of resources associated with the corresponding binary files associated with the logged API calls; as set forth in claims 1, 11, 19.

**Ringseth**, USPN: 6,625,804, discloses a compiler within a unified event model programming tool, so that events are captured by listener, and hooked with appropriate handlers. Using defined syntax and constructs, and ATL template in accordance with C++ programming for COM protocols, the compiler operates using a front end to check syntax using symbol table in conjunction with a parser, and a back end for converting intermediate code into executable. Ringseth, does not disclose or suggest a log of previously invoked API calls being reused by a replay tool so that collection of memory references from logged API calls can be mapped via a symbol table as in (i) and recreated as a API sequence according to the previously recorded API calls to be submitted as subsequent API calls to the execution runtime as in (ii) and (iii) and executed using resources from a execution template as in (iv) within the runtime environment of the tool.

**Chong**, USPN: 2003/0208743, discloses a workflow generator to generate a workflow model as tree-like structure built upon XHTML template collecting user data, the model parsing

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the input files and mapping of resources and syntax checking during traversal of the model structure so to yield intermediate code for compilation. Chong does not teach or suggest a replay tool with log and symbol table to recreate subsequent API calls based on logged API calls and their recollected memory references as set forth above in (i) (ii) (iii) and (iv).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### *Conclusion*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A Vu whose telephone number is (571) 272-3735. The examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571)272-3756.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3735 ( for non-official correspondence - please consult Examiner before using) or 571-273-8300 ( for official correspondence) or redirected to customer service at 571-272-3609.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be

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obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Tuan A Vu', followed by a long horizontal line.

Tuan A Vu  
Patent Examiner,  
Art Unit 2193  
August 18, 2007